State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-4-51

Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43000.5, 43013 and 43018 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following Deere Power Systems Group of Deere & Company 1999 model-year engine, with rated power between 175 and 750 horsepower, and exhaust emission control systems are certified as described below for use in heavy-duty off-road equipment:

Typical Equipment Usage: Other OEM Products

Fuel Type: Diesel

Engine Family	Displacement <u>Liters Cubic Inches</u>		Exhaust Emission Control Systems and Special Features			
XJDXL10.1006 (500AA)	10.1	616	Turbocharger Charge Air Cooler			

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matters (PM) certification exhaust emission standards, in grams per brake horsepower-hour (g/bhp-hr), and the opacity of smoke emission standards, in percent (%), during acceleration (Accel), lugging (Lug), and peak (Peak) modes, for this engine family are (Title 13, California Code of Regulations, Section 2423):

Exhaust Emissions (g/bhp-hr)				Smoke Opacity (%)				
THC	<u>co</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Luq</u>	<u>Peak</u>		
1.0	8.5	6.9	0.4	20	15	50		

Engine Model Summary Form

Manufacturer:

Deere Power Systems Group of Deere & Company

Engine category:

Nonroad Over 50 Hp

EPA Engine Family: XJDXL10.1006

Mfr Family Name: 500AA

Process Code: **New Submission**

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J19	ol 930
6101AT010 6101AT012	6101A 6101A	296@2000 282@2100	166@2000	110@2000	997@1400	194@1400	90@1400	TC,CAC,EM	Π.
		202(62100	153@2100	108@2100	1117@1400	221@1400	104@1400	TC,CAC,EM	
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